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RoHS/WEEE, REACH,
and Halogen Free



Product

MCT 306-21

CLEAR SILICONE COATING/GLOBTOP

DESCRIPTION: MCT 306-21 is a flexible, re-workable, non-conductive, silicone-based coating. The overall balance of peel strength, cohesion, and high temperature holding power provides a versatility that makes this product useful in a wide range of coating and bonding applications. This product is very resistant to flexing and creasing. Some applications for MCT 306-21 include, but are not limited to, coating for polyimide flexible circuits, polymer thick film circuitry, and semiconductor glob-top or MCM fill and attachments for stress-sensitive devices. MCT 306-21 is one of the few non-conductive coatings that can bond/adhere to silicone substrates and surfaces. In addition, it can be bonded to some types of Teflon® surfaces and rubber surfaces.

MCT 306-21 is optimized for syringe dispense, dipping, and spraying. The last two methods require some dilution.

TYPICAL PROPERTIES:

Viscosity (cps) 30,000 (approx.)

Filler Silica

TYPICAL CURED PROPERTIES

Crease Resistance	Excellent
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-70 to +260
Volume Resistivity Ω/cm	2.5×10^{15}
Thermal Stability (°C)	Good to +325
Dielectric Strength V/mil	625
Dielectric Constant @ 1KHz	3.16
Dissipation Factor @ 1KHz	0.001

SUGGESTED HANDLING & CURING: MCT 306-21 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of xylene. The best properties, for most applications, result when cured for 5 to 10 minutes at 160°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 180°C. End-user is advised to experimentally determine the temperature and time best suited for individual applications.

STORAGE: Shelf life: < 2 weeks at 25°C; or 6 months at 5°C; or 12 months at -10°C. Note: use catalyzed material within 36 hours.

SAFETY & HANDLING: Contains flammable solvents. Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from the skin.

The information contained herein, is, to the best of our knowledge accurate. However, MicroCoat Technologies, LLC does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchasers in selecting the appropriate products for purchaser's own testing. All products may present unknown hazards and should be used with the proper precautions. Although certain hazards are described herein and in the Material Safety Data Sheets, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.

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